

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of: )  
 )  
Takashi OSUMI et al. )  
 )  
Application No.: ) Group Art Unit: Unassigned  
(Divisional of 09/615,655) )  
 )  
Filed: May 10, 2001 ) Examiner: Unassigned  
 )  
For: GREEN FLUORESCENT PROTEINS )  
AND BLUE FLUORESCENT PROTEINS )

Commissioner for Patents  
Washington, D.C. 20231  
**BOX SEQUENCE**

**STATEMENT ACCOMPANYING SEQUENCE LISTING**

Dear Sir:

The undersigned hereby states upon information and belief that the Sequence Listing submitted concurrently herewith does not include matter which goes beyond the content of the application as filed and that the information recorded on the diskette submitted concurrently herewith is identical to the written Sequence Listing submitted herewith.

Respectfully submitted,  
**MORGAN, LEWIS & BOCKIUS LLP**

Dated: May 10, 2001

By: Rosanne Kosson  
Rosanne Kosson  
Registration No.: 46,840

**Customer No. 009629**  
**MORGAN, LEWIS & BOCKIUS LLP**  
1800 M Street, N.W.  
Washington, D.C. 20036  
Tel: 202-467-7000  
Fax: 202-467-7258

# SEQUENCE LISTING

<110> Osumi, Takashi  
Tsukamoto, Toshiro  
Tsukamoto, Noriyo  
Yamasaki, Masatoshi

<120> GREEN FLUORESCENT PROTEINS AND BLUE FLUORESCENT  
PROTEINS

<130> 046124-5005-US

<140>

<141>

<150> JP 026418/1998

<151> 1998-01-23

<150> US 09/121,539

<151> 1998-07-24

<150> US 09/615,655

<151> 2000-07-13

<160> 14

<170> PatentIn Ver. 2.0

<210> 1

<211> 238

<212> PRT

<213> Aequorea victoria

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<223> Green fluorescent protein

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Glu Leu Asp Gly Asp Val Asn Gly His Lys Phe Ser Val Ser Gly Glu  
20 25 30

Gly Glu Gly Asp Ala Thr Tyr Gly Lys Leu Thr Leu Lys Phe Ile Cys  
35 40 45

Thr Thr Gly Lys Leu Pro Val Pro Trp Pro Thr Leu Val Thr Thr Phe  
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Ser Tyr Gly Val Gln Cys Phe Ser Arg Tyr Pro Asp His Met Lys Gln  
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<223> Description of Artificial Sequence: cloning primer

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<212> DNA

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<223> Description of Artificial Sequence: cloning primer

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ggcgagctgc acgccgccgt cctcgatg 28

<210> 14

<211> 239

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Engineered green fluorescent protein

<400> 14

Met Val Ser Lys Gly Glu Glu Leu Phe Thr Gly Val Val Pro Ile Leu  
1 5 10 15

Val Glu Leu Asp Gly Asp Val Asn Gly His Lys Phe Ser Val Ser Gly  
20 25 30

Glu Gly Glu Gly Asp Ala Thr Tyr Gly Lys Leu Thr Leu Lys Phe Ile  
35 40 45

Cys Thr Thr Gly Lys Leu Pro Val Pro Trp Pro Thr Leu Val Thr Thr  
50 55 60

Phe Thr Tyr Gly Val Gln Cys Phe Ser Arg Tyr Pro Asp His Met Lys  
65 70 75 80

Gln His Asp Phe Phe Lys Ser Ala Met Pro Glu Gly Tyr Val Gln Glu  
85 90 95

Arg Thr Ile Phe Phe Lys Asp Asp Gly Asn Tyr Lys Thr Arg Ala Glu  
100 105 110

Val Lys Phe Glu Gly Asp Thr Leu Val Asn Arg Ile Glu Leu Lys Gly  
115 120 125

Ile Asp Phe Lys Glu Asp Gly Asn Ile Leu Gly His Lys Leu Glu Tyr  
 130 135 140

Asn Tyr Asn Ser His Asn Val Tyr Ile Met Ala Asp Lys Gln Lys Asn  
 145 150 155 160

Gly Ile Lys Val Asn Phe Lys Ile Arg His Asn Ile Glu Asp Gly Ser  
 165 170 175

Val Gln Leu Ala Asp His Tyr Gln Gln Asn Thr Pro Ile Gly Asp Gly  
 180 185 190

Pro Val Leu Leu Pro Asp Asn His Tyr Leu Ser Thr Gln Ser Ala Leu  
 195 200 205

Ser Lys Asp Pro Asn Glu Lys Arg Asp His Met Val Leu Leu Glu Phe  
 210 215 220

Val Thr Ala Ala Gly Ile Thr Leu Gly Met Asp Glu Leu Tyr Lys  
 225 230 235

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